

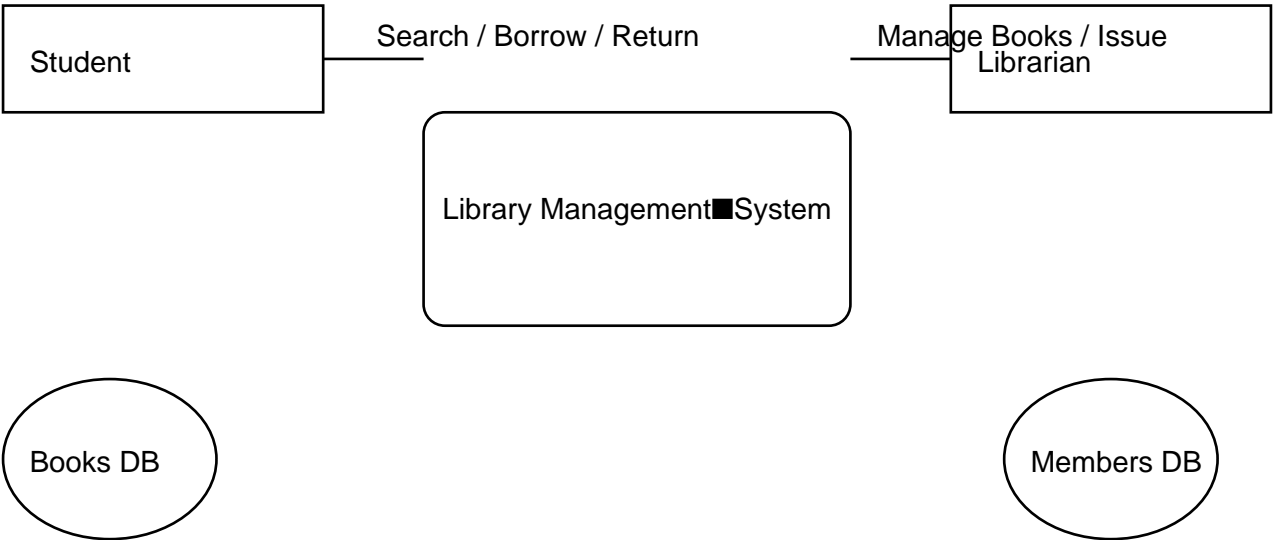
Library Management System - Diagrams

Student: Anuj Prajapati

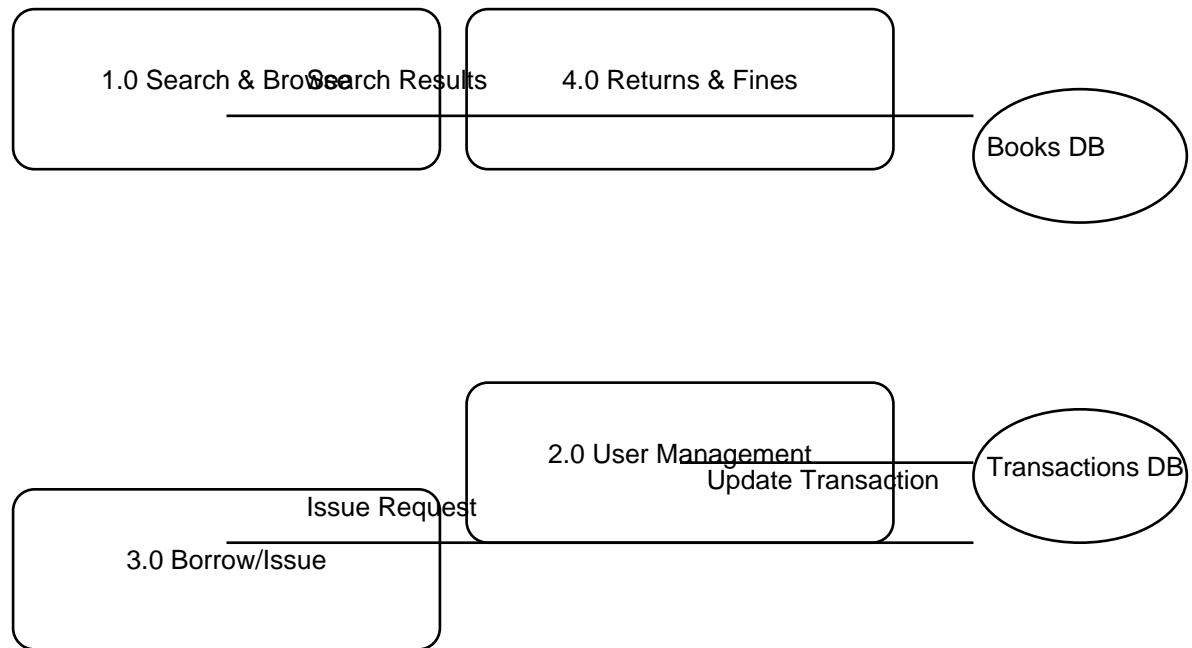
Enrollment No: 2301030730033

Contains: DFD (Context + Level 1), ER Diagram, Use Case, Sequence, Activity, Class Diagram

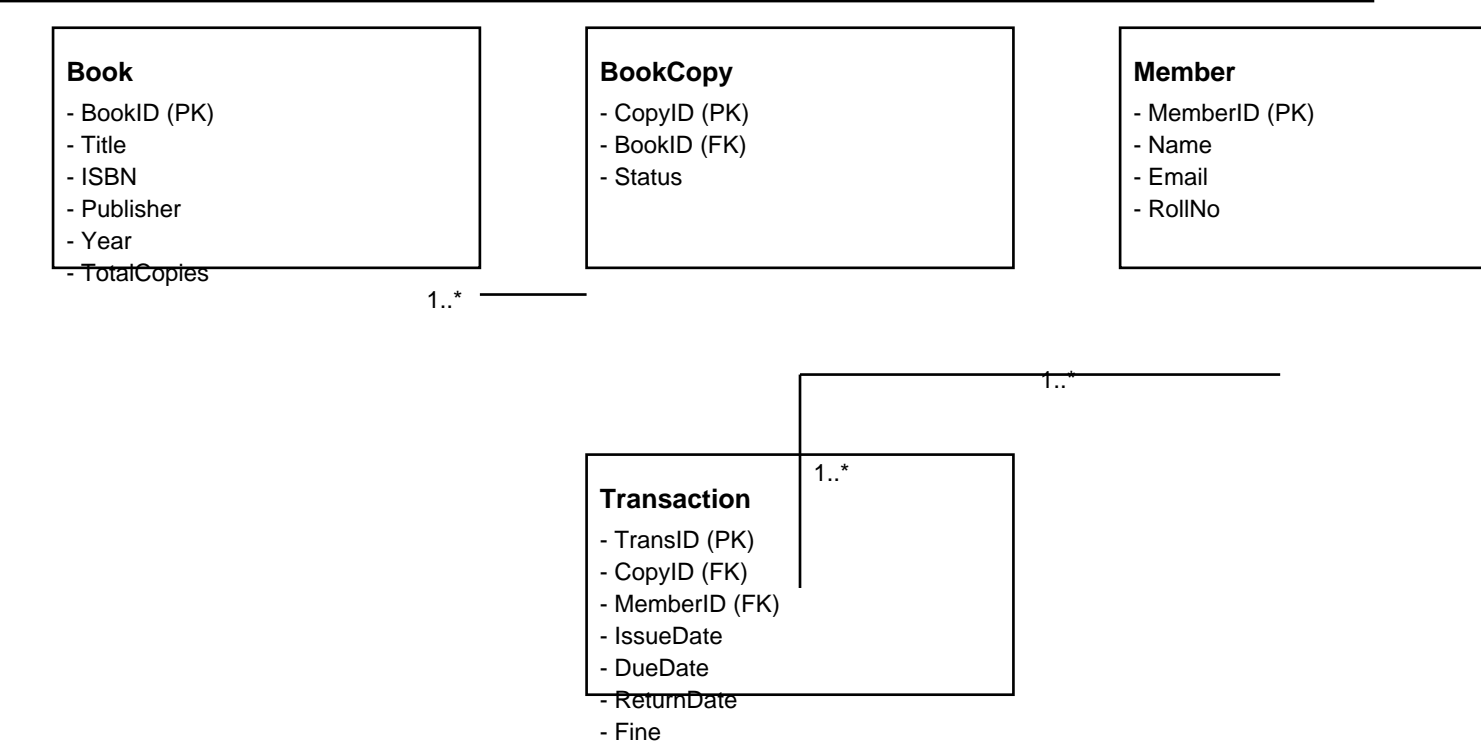
DFD - Context Diagram (Level 0)



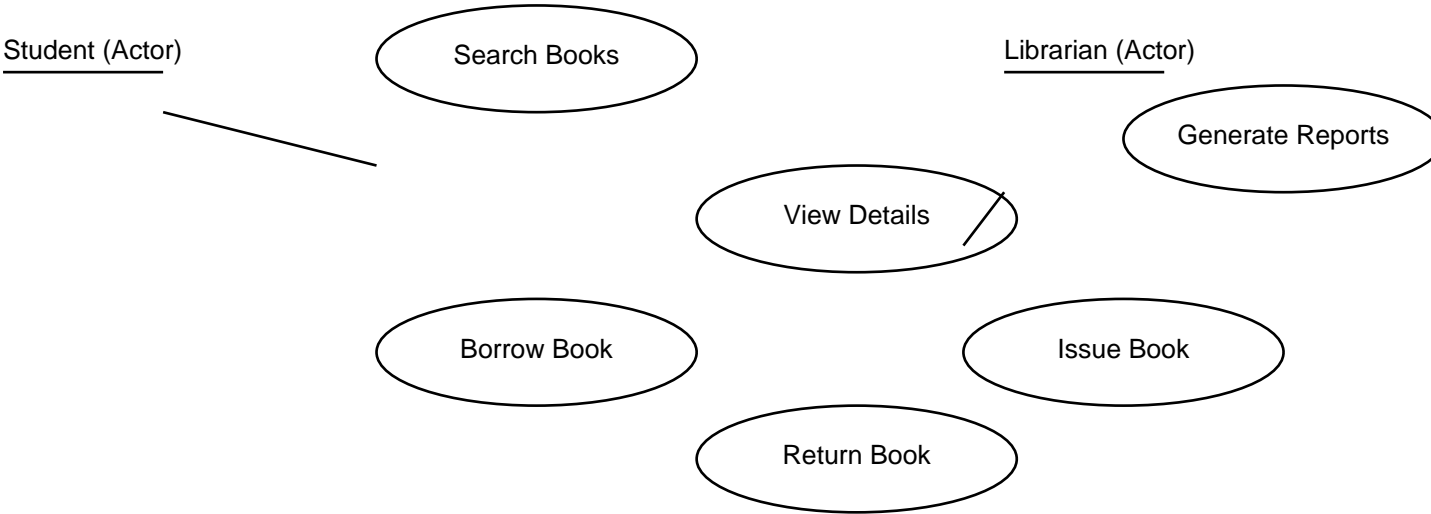
DFD - Level 1 (Core Processes)



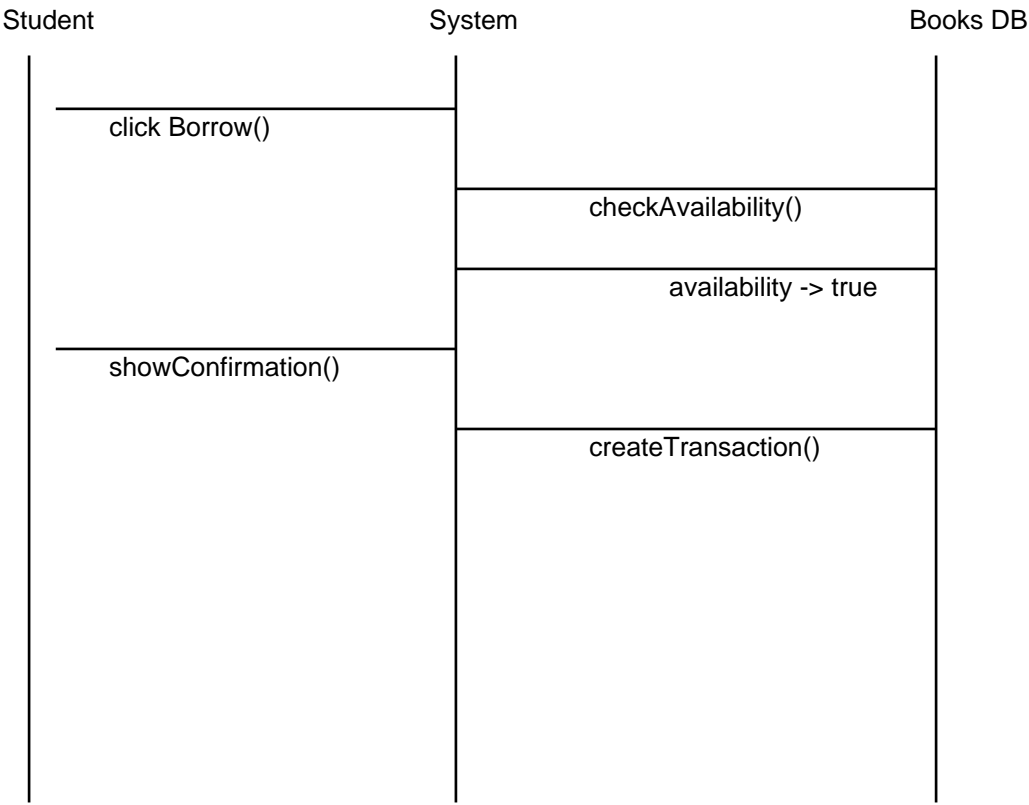
ER Diagram



UML Use Case Diagram



Sequence Diagram - Borrow Book



Activity Diagram - Search & Borrow

● Start

Enter search query

Display results

Select book

Check availability?

If available -> Borrow

If not -> Request/Notify

Class Diagram - Core Classes

Book
bookId:int
title:String
isbn:String
getDetails()
isAvailable()

BookCopy
copyId:int
status:String

markIssued()
markAvailable()

Member
memberId:int
name:String
email:String
borrowBook()
returnBook()